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- 1 No, the sample is biased towards students who use the internet, because of the email collection method.
- 2 No, the sample is biased because she is collecting the data at a particular time of day. Some age groups would be more likely to use the restaurant at that time probably school children and 'young' families.
- 3 No, the sample is biased towards viewers of that station. Only people with strong opinions will call, and people may call more than once.
- 4 Answers will vary
- 5 a 0.48
 - **b** \hat{p} , This is a sample proportion, because it was determined from a sample.
- **6 a** The population is all students at this school.
 - **b** The population proportion is the proportion of students in the whole school who travel by public transport, 0.42.
 - **c** The sample proportion is the proportion of students in the sample who travel by public transport, 0.37.
- **7 a** The population is all Australian adults.
 - **b** The population mean is the mean number of hours that Australian adults watch TV per day = 4 hours.
 - ${f c}$ The sample mean is the mean number of hours that the Australian adults in the sample watch TV per day =3.5 hours.